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Quality Control

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| DQA: | Date: | | 4 |
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NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

| | | | | | | | | | QA Closed: | Date | • |
|---------------------------------|------------|------------|------------|--------|--|------------------|---|---|---------------|---|---------------------------|
| Work Order | : | | | | DISPOSITION | | | AGAINST DE | PARTMENT | /PROCESS | |
| Part No | D | | | | Rework Scrap Use-as-is Work Order Update | | Skid-tube Machining noforming Large Fab | Crosstube Small Fab Finishing Composite | 4 | Water Jet d. Eng. Coor. re/Packaging Supplier | Engineering Quality Other |
| Root | | | | Descri | ption of work order update | Initial | Act | tion | Sign & | | |
| Cause | Date | Step | Qty | (| or Non-conformance | Chief Eng | Desc | ription | Date | Verification | QC Inspector |
| Doc/Data Equip/Tooling Operator | | | - | | | | | | | | |
| Material | | | | | | | | | | | |
| Setup | | | | | | | | | | | |
| Other | 7 | | | | | | | | | | |
| Process | 7 | | | | | | | | | | |
| Supplier | | | | | | | | | | | } |
| Training | | | | | | | | | | | |
| Unapproved | | | | | | | | | | | |
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| Landing | g Gear | | | | General | | | _ | - | _ | _ |
| | Bending | | | | Bend | Grain | | | Ovalized | | Pressure/Forced |
| L | Centre No | ot Concer | ntric to (| o/s | BOM/Route | Hardwa | | | Over/Under | | Temperature/Cure |
| _ | Cracks | | | | Broken/Damaged | — . | ion Incomplete | <u></u> | Part Incorred | | Weld |
| | Crushed/ | Crimped | | 1_ | Burrs | | ions Incomplete/ | Unclear | Part Lost/Mi | ssing | Wrong Stock Pulled |
| | Cuffs | | | | Contamination | Mainte | enance | | Part Moved | | |
| L | Heat Trea | | | | Countersink | Mislabe | eled | | Positioned V | | ۱ |
| L | Inspection | • | Tube | 1 | Cut Too Short | Misrea | t | | Power Loss/ | Surge | Other |
| | Ripples in | | | | Drill Holes | Offset | | | | | |
| <u> </u> | Torque W | | | ր | Drawing | | Calibration | | | | |
| | Turning S | | | | Finish | | Sequence | | | | |
| | Wave/Tw | ist in Tub | oe . | | Folio | Outside | Dimensions | | | | |

Work Order ID 107558 *107558* Page 2 September-27-13 12:48:03 PM Accept *N900040100* Item ID: D3997-43 Setup Start **Revision ID:** Stop Item Name: Placard *10* **Start Qty: 10.00 Start Date:** 9/24/13 **Cust Item ID:** Required Date: 9/27/13 Req'd Qty: 10.00 **Customer:** Reference: Run Date: Tooling: Date: Approvals: Stop Date: _____ SPC (Y/N): QC: Date: Tool ID Tool # Plan Reject Reject Insp. Set Up/ Accept Sequence ID/ Operation Qty Number Stamp Code **Qty** Description **Run Hours** Work Center ID Identify as per dwg & Stock Location 37 34479 130 13-10-8 12-10-8 13/10/08. 13-10-08. *130* 0.00 Packaging Memo Packaging QC21- Final Inspection - Work Order Release 0.00 140

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Quality Control

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NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

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| Work Order | • | | | | DISPOSITION | | | | AGAINST DE | PARTMENT, | /PROCESS | | |
| Part No | *** | | | | Rework Scrap Use-as-is | | r | Skid-tube Machining noforming | Crosstube Small Fab Finishing | | Water Jet d. Eng. Coor. re/Packaging | | neering Quality Other |
| NCR No |) | | | | Work Order Update |] | | Large Fab | Composite | | Supplier | | |
| Root | | | | Descri | ption of work order update | Ini | itial | Ac | tion | Sign & | | | |
| Cause | Date | Step | Qty | (| or Non-conformance | Chie | ef Eng | Desc | ription | Date | Verificatio | n QC | Inspector |
| Doc/Data | | | | | | | | | | | | | |
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| Operator | | | | | | | | | | | | | |
| Material | | | | | | | | | | | | | |
| Setup | | | | | | | | | | | | | |
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| Process | _ | | | | | | | | | | | | |
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| Training | _ | | | | | | | | | | | | |
| Unapproved | | | | | | | | | | | | | |
| | | | | | F/ | AULT | CATE | GORY | | | | | |
| Landing | | | | _ | General | | | | | 1 | 1 | 3 | |
| ļ | Bending | | | | Bend | \square _G | Grain | | | Ovalized | | — | e/Forced |
| | Centre No | ot Concer | ntric to (| o/s | BOM/Route | | lardwa | | | Over/Under | tolerance | ⊢ ⊣ ` | rature/Cure |
| Ĺ | Cracks | | | | Broken/Damaged | $\overline{}$ | | on Incomplete | | Part Incorre | | Weld | |
| L | Crushed/0 | Crimped | | | Burrs | | | ions Incomplete/ | 'Unclear | Part Lost/Mi | issing | Wrong | Stock Pulled |
| L | Cuffs | | | | Contamination | - | | nance | | Part Moved | | | |
| <u> </u> | Heat Trea | t | | | Countersink | ∐^ | ∕Iislabe | led | | Positioned V | _ | | |
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| | Turning S | equence | | | Finish | | Out of S | equence | | | | | |
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Picklist Print

September-27-13 12:48:03 PM

Page 1

Work Order ID:

Parent Item Name:

107558

Parent Item:

D3997-43

Placard

Start Date: 9/24/13

Required Date: 9/27/13

Start Qty: 10.00

Required Qty: 10.00

Comments:

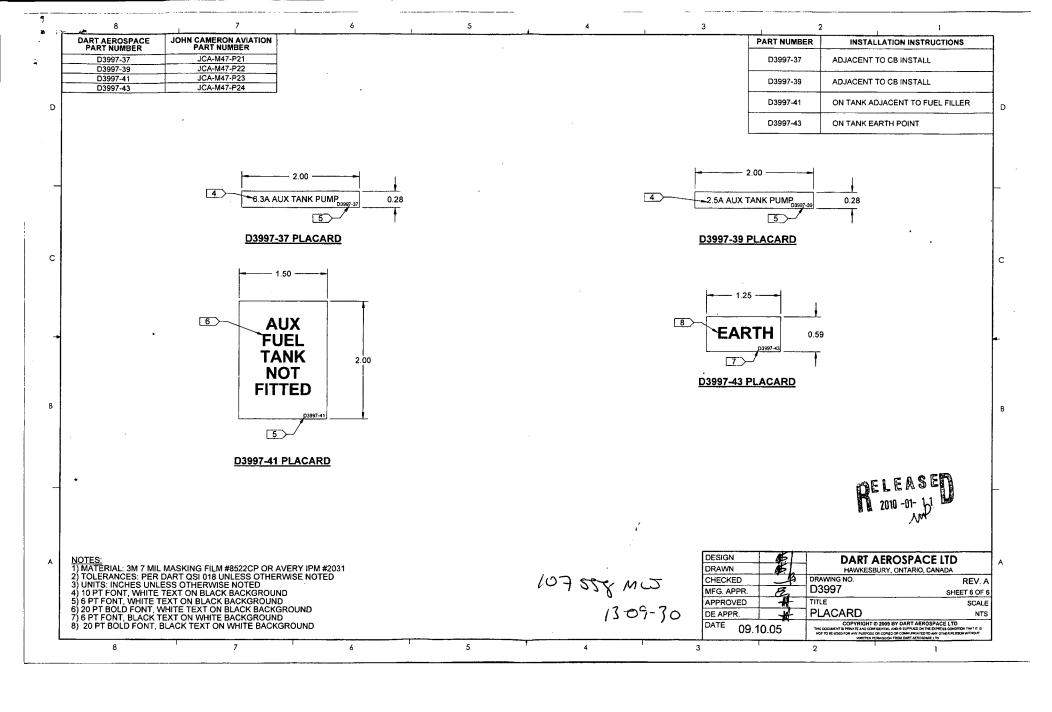
IPP rev A 10.01.13 new issue Prelim EC verified by:DD

| Issued | Qty Issued | Total Qty | Qty per Kit | Qty on Hand | Unit of Measure | Route Seq ID | Last Location | Primary Location | Bin Item | Mfg/ Purch | Replacement Item ID | Component Item ID/ Item Name |
|--------|---------------|--------------|--|----------------|--------------------|-----------------|------------------|---------------------|-------------|---------------|------------------------|---------------------------------|
| 160 | 1-12 | 10 | | 0.0000 | Each | | | | No | Purchased | | D3997-43P |
| 4 | [-[3] | 10 | THE PART OF THE PA | 0.0000 | Each | | | | No | Purchased | | D3997-43P Placard |

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| Cause | | Date | Step | Qty | (| or Non-conformance | Ch | ief Eng | Desci | ription | Date | Verification | n | QC Inspector |
| Doc/Data | | | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | | |
| Material | | | | | | | | | | | | | | |
| Setup | | | ŀ | | | | | | | | | | | |
| Other | Ш | | | | | | | | | | | | į | |
| Process | | | | | | | | | | | | | | |
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Date: ____

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| Root Cause | | Date | Step | Qty | Descr | • | ork order update | 1 | nitial ief Eng | | Action scription | on | Sign & Date | Verification | , | QC Inspector |
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| | | Crushed/C | Crimped | | L | Burrs | | | Instruct | ions Incomplete | e/Uncle | ear | Part Lost/Mi | ssing [| | Wrong Stock Pulled |
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| | } | Heat Trea | t | | | Counters | sink | | Mislabe | led | | | Positioned V | Vrong | | |
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Studio de Lettrage 210 Main Street W

Hawkesbury, Ontario K6A 2H6

INVOICE

Invoice No.:

21007

Date:

10/04/2013

Ship Date:

Page:

Re: Order No.

WO10976

Sold to:

Dart Aerospace Ltd

1270 Aberdeen Hawkesbury, Ontario K6A 1K7

Ship to:

Dart Aerospace Ltd

Hawkesbury, Ontario

Business No.:

82500 7651 RT0001

| Item No. | Unit | Quantity | Description | Tax | Unit Price | Amount |
|--------------------------------|--------------------------------|--------------------------|--|-----|--|--|
| | | 1 10 1 10 10 | Stickers D3428-1P Set up Stickers D3997-17P Set up Stickers D3997-11P Set up Stickers D3997-43P Set up PO21538 | | 1.0417 50.0000 2.5000 50.0000 2.5000 50.0000 2.5000 50.0000 | 25.0 50.0 25.0 50.0 25.0 50.0 25.0 |
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| Customer: | | |
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| Purchase Order #: Packing S | Part#: | Serial #: |
| Description: 29X D3428-1 10X D3997-17D TOX D3 10 X D3997-93P | P. Quantity: | 4 Tetal |
| Certification: | | |
| We hereby certify that: | | |
| The above the listed items were accordance with applicable draws. | | |
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| components are on file and ava | | |
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| | DATE: | ctober 4th 20 |

PRODUCT DATA SHEET



Avery[®] IPM™ 2031

issued: 01/04/2005

Introduction

Avery[®] IPM™ 2031 is a high quality pressure-sensitive vinyl film, designed for use on wide format inkjet printers. Avery[®] IPM™ 2031 has excellent printing properties, allowing crisp print quality with bright and vibrant colours. Avery[®] IPM™ 2031 offers rapid ink drying and a water-resistant material. It combines good adhesion during its life and easy removal afterwards.

Description

Facefilm:

80-micron premium white calendered, topcoated vinyl.

Adhesive:

removable, acrylic based

Backing paper: one side coated kraft paper, 140 g/m²

Features

- Excellent printability
- Vibrant and bright colours
- Crisp print quality
- Spray water resistant wit specific pigmented inks
- Good adhesion, excellent removability
- Warranty on outdoor durability

Recommendations for use

A wide variety of full-colour graphics for indoor - and **short/medium term outdoor** applications such as posters, murals, displays, exhibition stands, vehicle graphics etc. Avery[®] IPM™ 2031 is suitable for application to a wide variety of substrates and will remove cleanly for up to 1 year after application.

The same the same of the same

IPM media should be handled with care as any surface contamination may affect the print quality. Media should be processed in an environment of 15-25°C and 30-70% relative humidity. After drying, the finished prints should be wrapped in polyethylene film and despatched flat or rolled with the printed side facing outwards. To protect prints against water, UV/light and abrasion, overlamination with a clear film is recommended. For specific details of Avery® DOL combinations, refer to "Technical Bulletin 5.3. Recommended combinations of Avery® Overlaminates and Avery® Digital Print Media"

Always test your combination of Avery[®] IPM™ medium, inkjet printer and inks prior to commercial use.

Compatibility

Avery® IPM™ 2031 is compatible with a broad selection of inkjet printers, when printing with pigmented, water based inks. For specific details refer to "Technical Bulletin 5.6 Avery Dennison Inkjet Print Media - Printer compatibility".

Durability:

Avery[®] IPM™ 2031 is warranted for outdoor use in conjunction with pigmented outdoor inks from HP, Encad and Colorspan. The warranted period varies from type of application and type of overlaminate from 18 months up to 5 years. For full details, see our Avery[®] IPM™ Outdoor warranty.





PRODUCT CHARACTERISTICS

Avery® IPM™ 2031

Physical properties

Features

Caliper, facefilm

Gloss

Dimensional stability

Adhesion, initial

Adhesion, ultimate

Flammability

Accelerating ageing

DIN 53587, 500h exposure

Stored at 22° C/50-55 % RH

Test method1

ISO 2813, 20°

ISO 534

DIN 30646

Removability

Shelf life

Not when applied to: Nitro-cellulose paints, ABS, Polystyrene, certain types of PVC

Durability²

FINAT FTM-1, stainless steel

FINAT FTM-1, stainless steel

with overlaps

Overlaminated without overlaps

for static applications only

Results

80 um

1%

0.3 mm, max

180 N/m

260 N/m

Self extinguishing

No negative impact on film

Performance

2 years

up to 1 year

Overlaminated with DOL 4300

Overlaminated with DOL 1000, DOL 1100

Without overlaminate and used for static,

Non-abrasive application ONLY

5 years 3 years

2 years

18 months

Only when printed with ENCAD GO, HP and Colorspan pigmented inks and when properly applied in accordance with our application instructions. Only applicable for vertical exposure.

Temperature range

Features

Application temperature Service temperature

Results

Minimum: +10°C -20°C to +80°C

Information on physical and chemical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of these Conditions, the English version shall be controlling.

Avery branded materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give any guarantee, warranty, or make any representation contrary to the foregoing.

All Avery branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

1) Test methods

More information about our test methods can be found on our website.

The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased



www.averygraphics.com